

CLAIMS

1. A ceramic product having a treated surface formed with a layer composed of a stain resistant agent, said agent including 5 a silicon-containing functional group combining with a hydroxyl group present on said treated surface by dehydration or dehydrogenation.

2. The ceramic product according to claim 1, wherein the 10 silicon-containing functional group does not combine with another silicon-containing functional group.

3. The ceramic product according to claim 1 or 2, wherein the stain resistant agent contains a terminal carbon fluoride 15 group combining with the silicon-containing functional group.

4. The ceramic product according to claim 3, wherein the carbon fluoride group is $-C_nF_{2n+1}$ where n is a natural number in a range of $1 \leq n \leq 12$.
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5. The ceramic product according to claim 1 or 2, wherein the stain resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group and a terminal alkyl group combining with said silicon-containing 25 functional group, and said alkyl group has a larger quantity than said carbon fluoride group.

6. The ceramic product according to claim 1 or 2, wherein

the stain resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group and a terminal alkyl group combining with said silicon-containing functional group, and said carbon fluoride group has a larger 5 quantity than said alkyl group.

7. The ceramic product according to claim 5, wherein the silicon-containing functional group and the alkyl group are combined with each other by dimethyl siloxane.

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8. The ceramic product according to claim 6, wherein the silicon-containing functional group and the alkyl group are combined with each other by dimethyl siloxane.

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9. The ceramic product according to claim 7, wherein the stain resistant agent is a mixture of a first agent and a second agent, said first agent being a co-hydrolysate of an organic silicon compound containing a perphloroalkyl group and a methylpolysiloxane compound containing a hydrolytic group in a 20 hydrophilic solvent, said second agent being a mixture of organopolysiloxane and a strong acid.

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10. The ceramic product according to claim 9, wherein the dimethyl siloxane contains a straight chain combination of the 25 silicon-containing functional group and the alkyl group.

11. The ceramic product according to claim 1, wherein the treated surface is repeatedly wetted and dried.

12. A method of stain resistant treatment applied to a ceramic product used with water and having a treated surface on which a layer comprising a stain resistant agent is formed so that said
5 stain resistant treatment is applied to the ceramic product, said stain resistant agent including a silicon-containing functional group combining with a hydroxyl group present on the treated surface by dehydration or dehydrogenation.

10 13. The method according to claim 12, wherein the silicon-containing functional group does not combine with another silicon-containing functional group.

14. The method according to claim 12 or 13, wherein the stain
15 resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group.

15. The method according to claim 14, wherein the carbon fluoride group is $-C_nF_{2n+1}$ where n is a natural number in a range
20 of $1 \leq n \leq 12$.

16. The method according to claim 12 or 13, wherein the stain
resistant agent contains a terminal carbon fluoride group combining with the silicon-containing functional group and a
25 terminal alkyl group combining with said silicon-containing functional group, and said alkyl group has a larger quantity than said carbon fluoride group.